

1
$$a: X = S, Y = O, Z = O, n = 0$$

$$b : X = O, Y = CH_2, Z = O, n = 1$$

$$c: X = O, Y = O, Z = CH_2, n = 1$$

$$d: X = S, Y = CH_2, Z = NH, n = 1$$

Fig. 1A

$$2 a : n = 1, X = S$$

$$b : n = 0, X = S$$

$$d: n = 1, X = 0$$

Fig. 1B

3.
$$n = 1$$
, $a : R = hexyl$, $b : R = benzyl$

4.
$$n = 0$$
, $a : R = hexyl$, $b : R = benzyl$

Fig. 1C

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6.
$$X = S$$

5 a : Ar = $p-NO_2-C_6H_4$

b: $Ar = p-NH_2-C_6H_4$

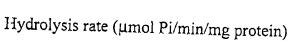
Fig. 1D

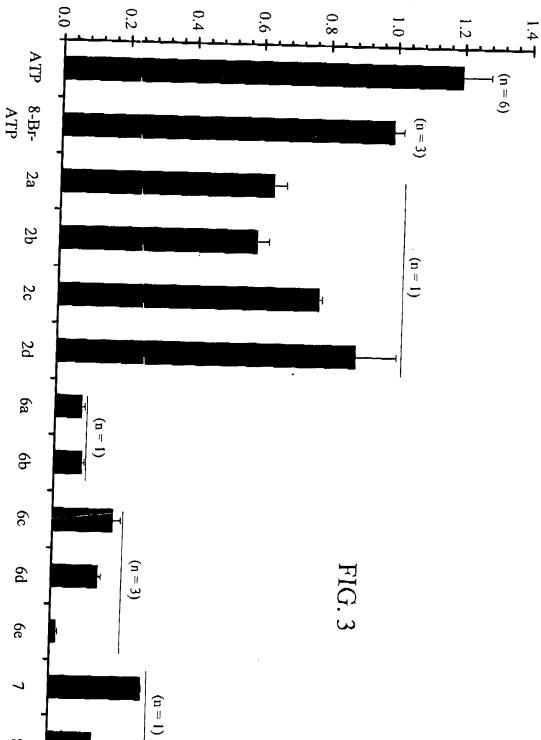
Fig. 1E

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Fig. 2







CCECHO ZYTEETO

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Ki (µM)	31 ± 2.5	45 ± 2.5	16 ± 2.0	10 ± 2.0						
	6a	99	p 9	ee						
Inhibitors	8-cyclohepthylS-ATP	8-CH2(BuS-ATP	8-hexylS-ATP	8-BuS-ATP						
Vmax (µmol/min/mg protein)	1.65 ± 0.10	1.30 ± 0.08	0.83 ± 0.05	0.94 ± 0.10	0.99 ± 0.10	0.82 ± 0.09	0.63 ± 0.04	0.30 ± 0.03	0.28 ± 0.03	0.20 ± 0.01
Кт (µM)	18 ± 1	33 ± 1	36 ± 6	63 ± 14	32 ± 8	28 ± 8	22 ± 5	12 ± 5	20 ± 7	26 ± 5
			2a	2b	2c	24		99	7	∞
Substrates	АТР	ADP	2-BuS-ATP	2-BuS-ADP	2-BuNH-ATP	2-BuO-ATP2d	8-bromo-ATP	8-cthylS-ATP	8-BuNH-ATP	8-BuO-ATP

FIG 4

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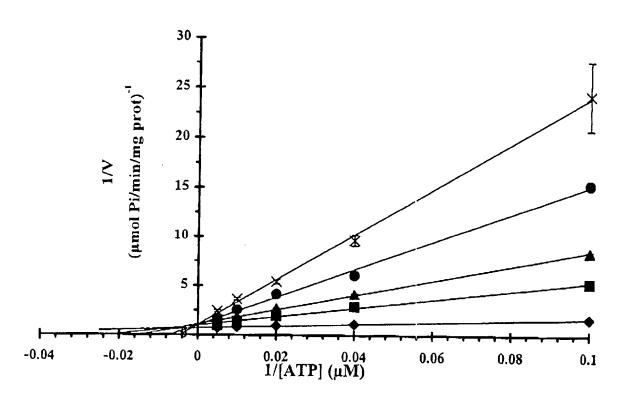
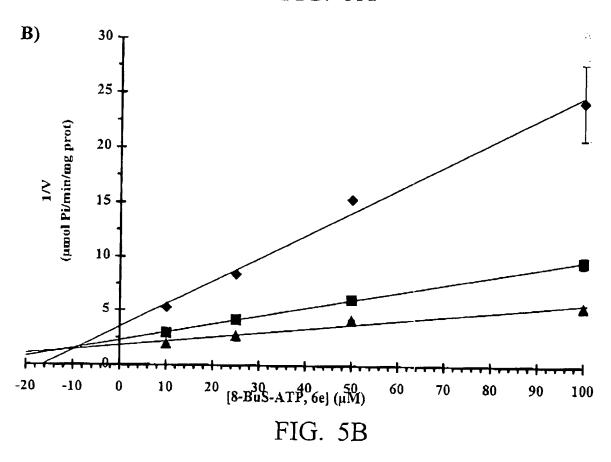


FIG. 5A



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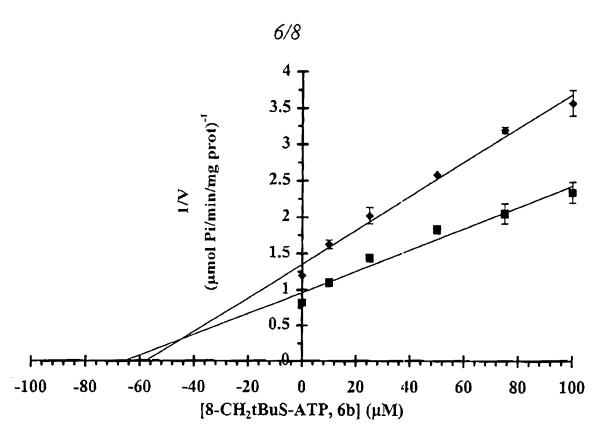
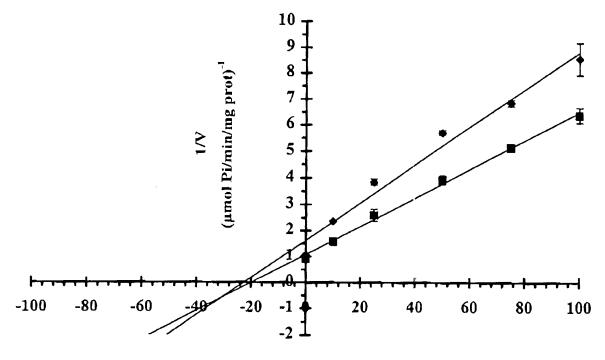


FIG. 6A



[8-cyclohepthylS-ATP, 6a] (μ M)

FIG. 6B

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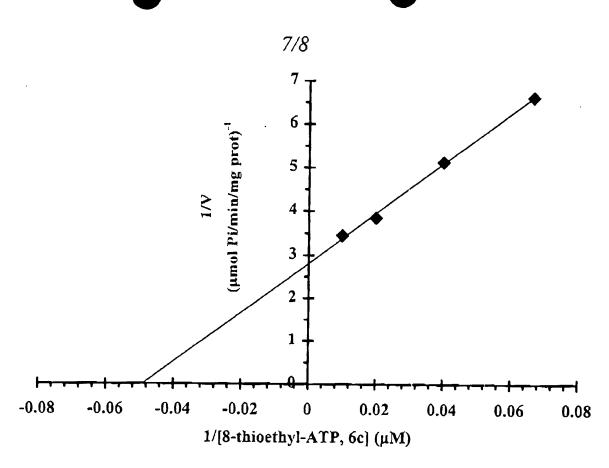


FIG. 7A

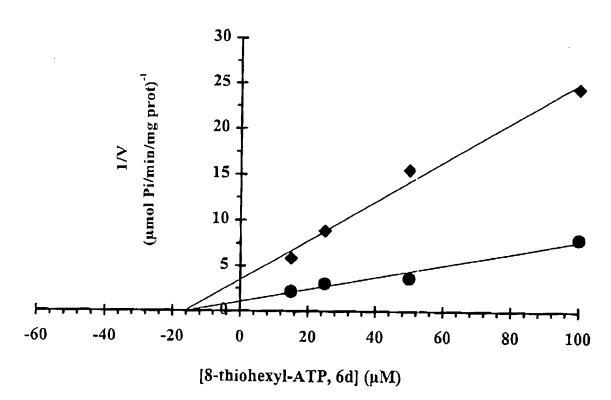


FIG. 7B

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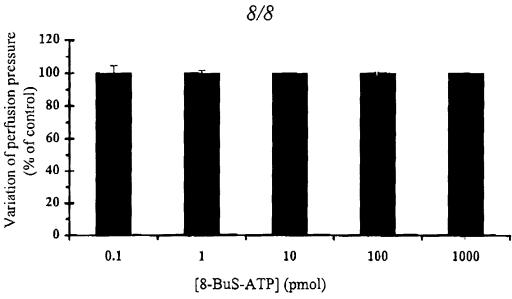


FIG. 8A

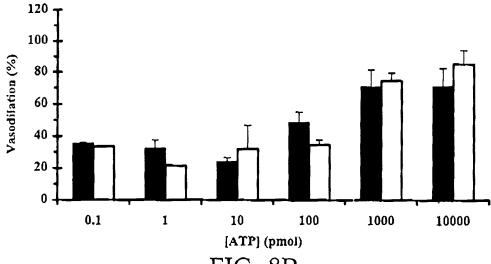


FIG. 8B

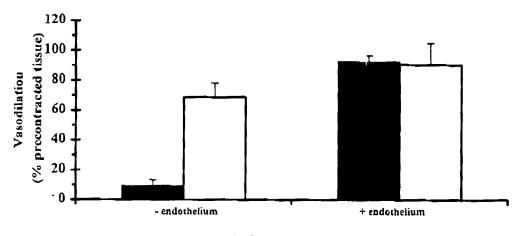


FIG. 8C

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